

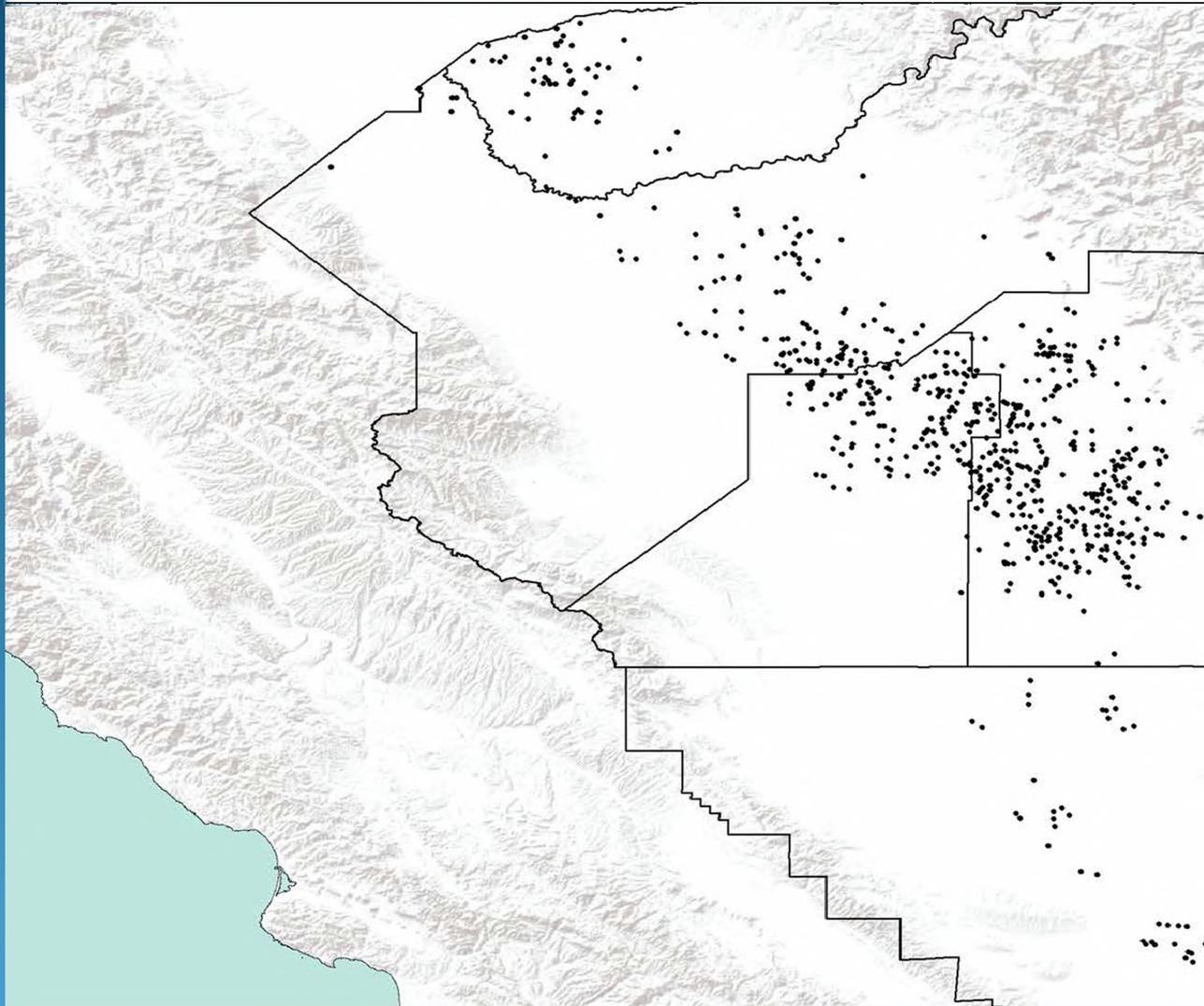
Dairies' Risk to Drinking Water of Disadvantaged Communities

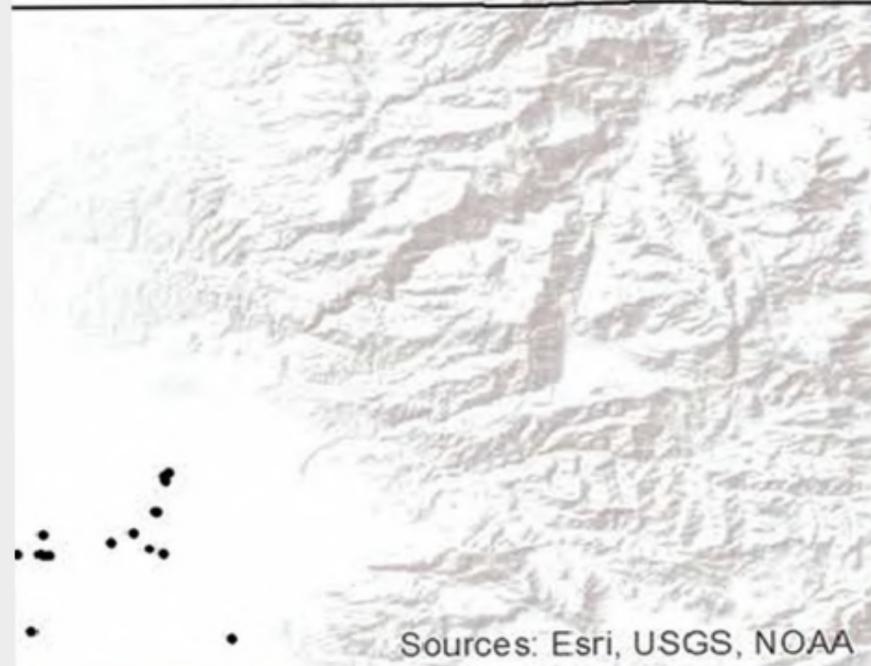
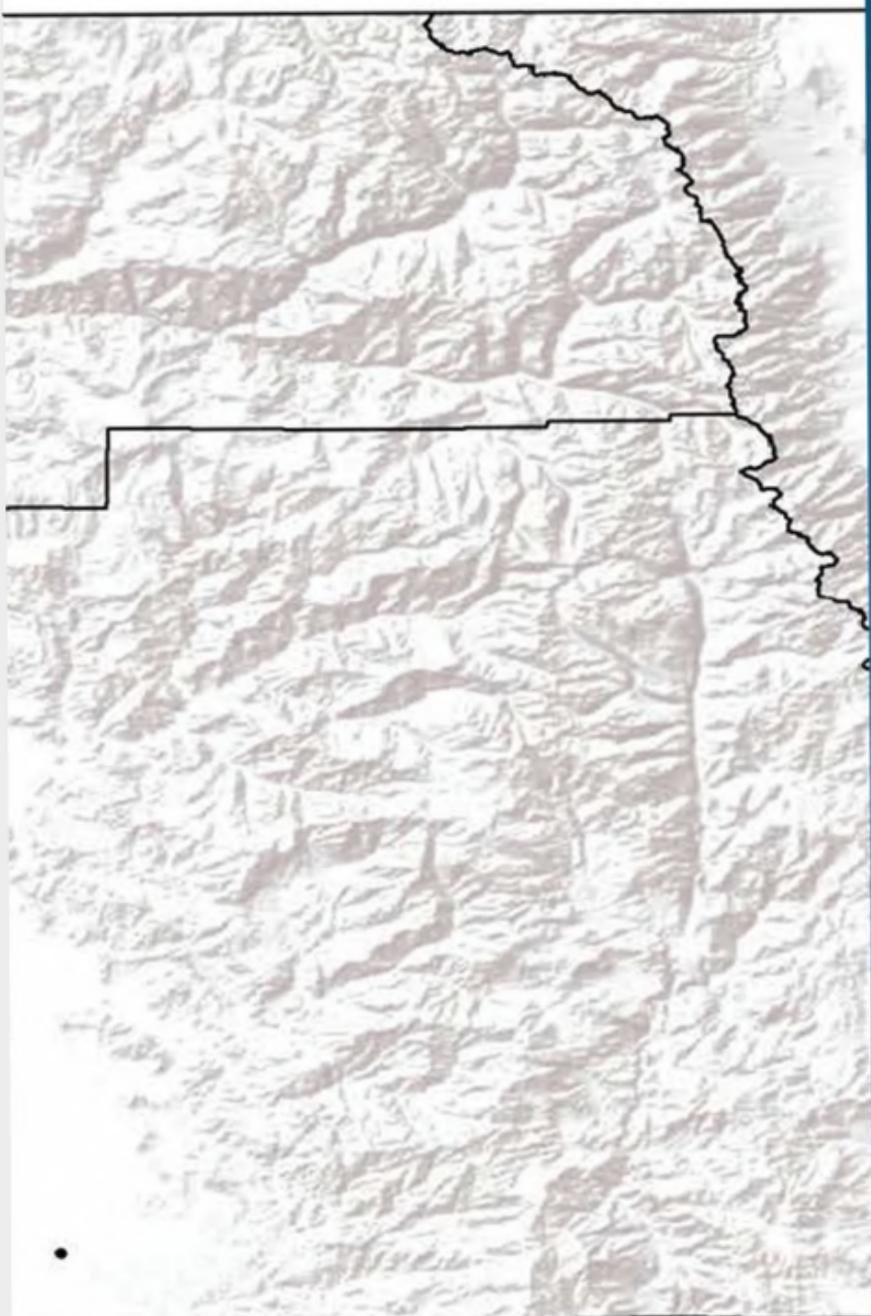


April 27, 2018

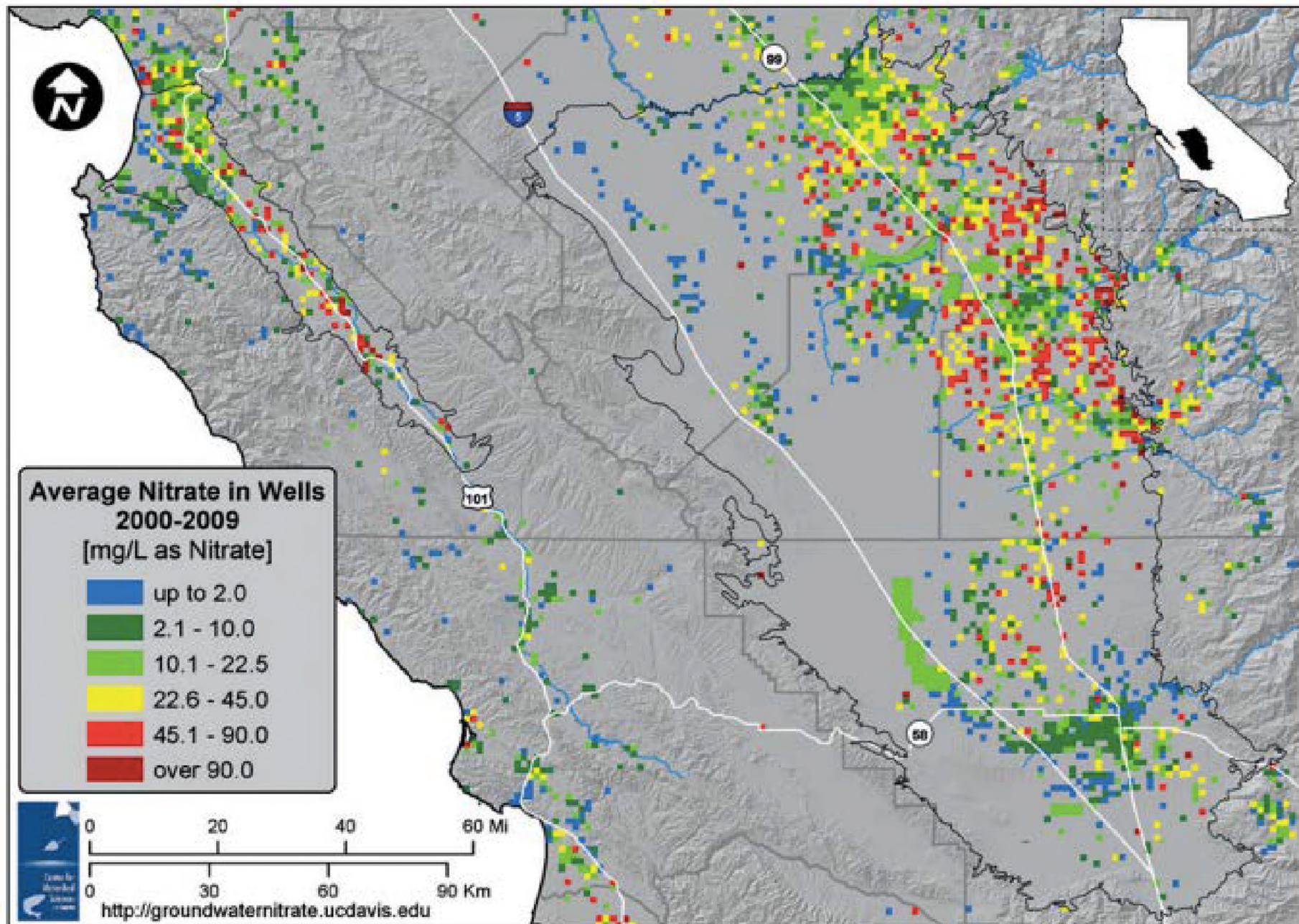
Photo credit: Voices from the Valley,
voicesfromthevalley.org

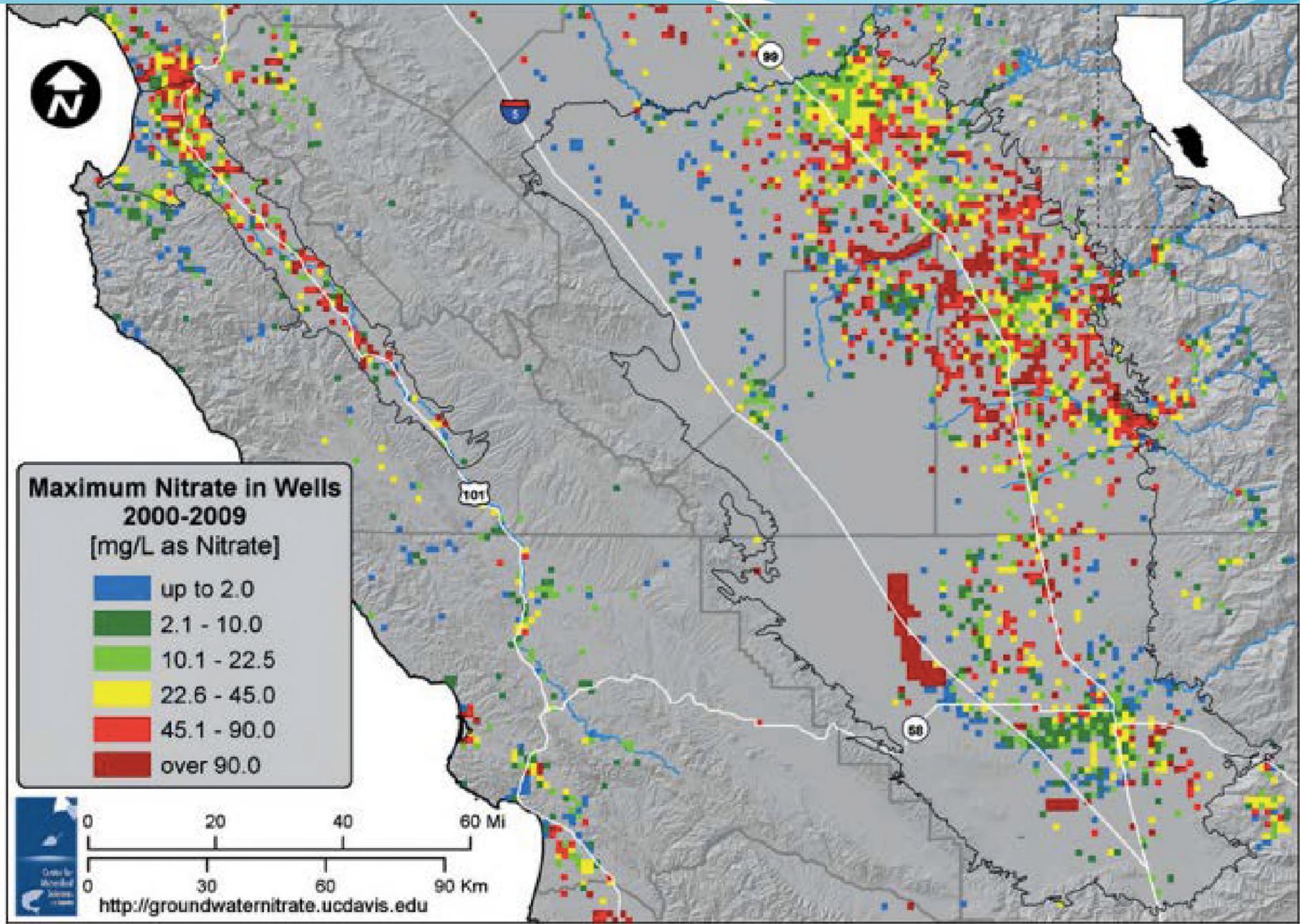
Tulare Lake Basin Dairies



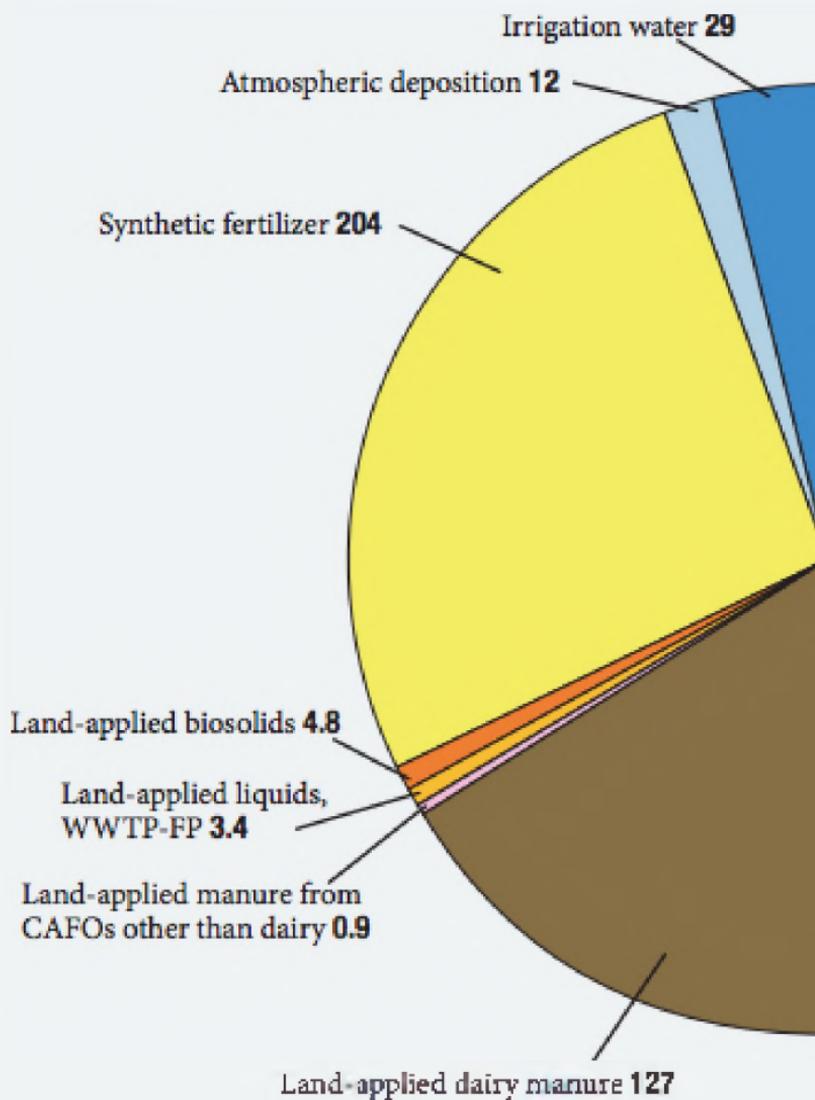


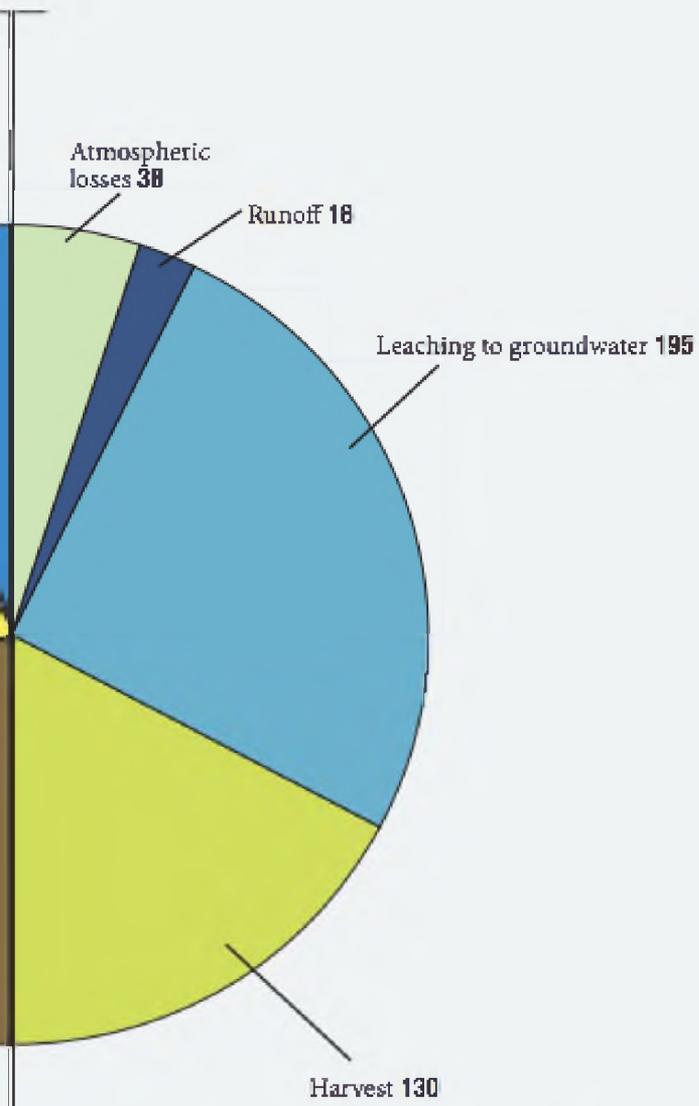
Sources: Esri, USGS, NOAA





Cropland Nitrogen Inputs





Cropland Nitrogen Outputs

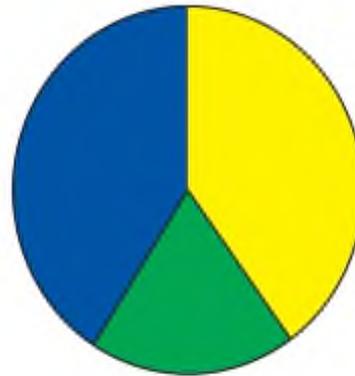


Nitrate, Well Depth, and Land Use

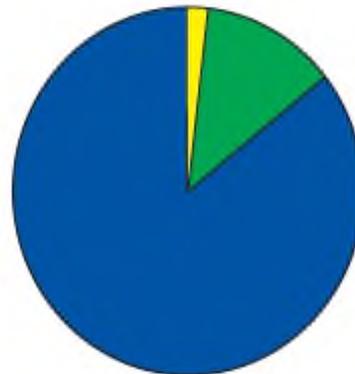
USGS domestic well study 2006

- Urban
- Agriculture
- Forest
- Grass/shrub/rock

Western Tulare County



Shallow wells
(<200 ft)
Mostly domestic
and small-system



Deep wells
(screen >200 ft)
Mostly public-supply
and irrigation

Derived from GAMA PBP,
GAMA DWP & USGS NWIS data

COMMUNITY IMPACTS

Health: High nitrate levels are linked to Blue baby syndrome, various cancers, thyroid disorders and gastro-intestinal disorder

Economic Security: Combined cost of drinking water service and bottled water can exceed 10% of household income.

COMMUNITY IMPACTS

- One third of San Joaquin Valley residents surveyed reported using their contaminated tap water for drinking or cooking.
- More than half of those surveyed did not know that their water system had a nitrate problem.
- Some communities in the state have been waiting for over a decade for measures to restore the safety of their drinking water.
- Residents bear the cost of nitrate contamination - purchasing water or installing point-of-use filters to protect their families

A woman with short dark hair, wearing a white t-shirt and blue pants, stands with her arms crossed in a field. In the foreground, there are several large, ripe pomegranates hanging from a tree. In the background, a large white cylindrical water tank is visible behind a chain-link fence topped with barbed wire. The sky is clear and blue.

In the Valley, ground water contamination

**is drinking water
contamination.**

**Over 90% of Valley residents are dependent on
groundwater sources for their drinking water
supplies.**

East-Orosi , CA



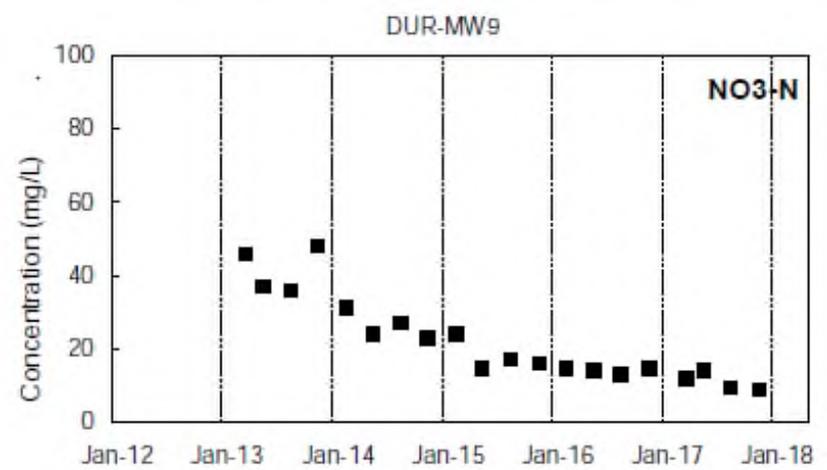
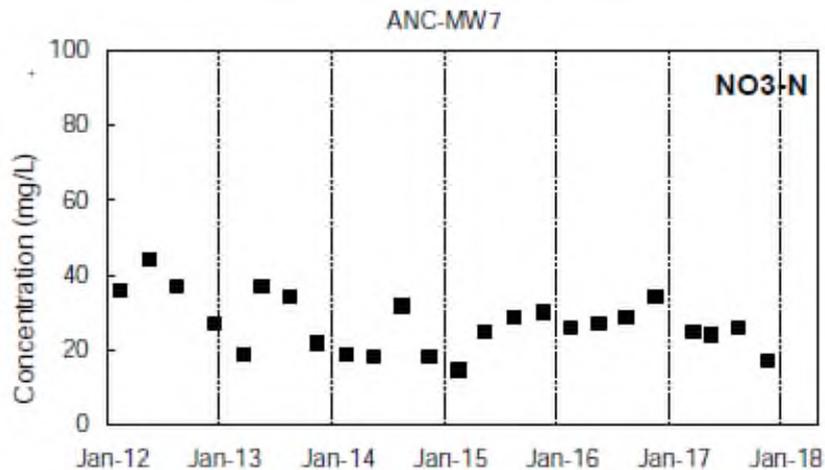
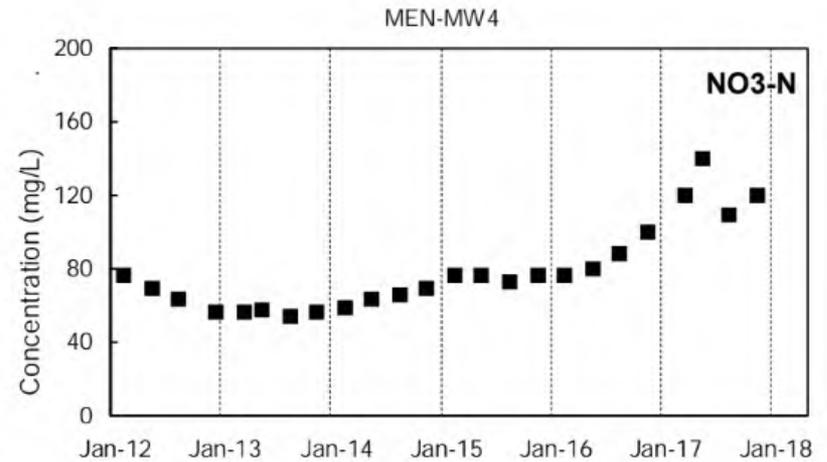
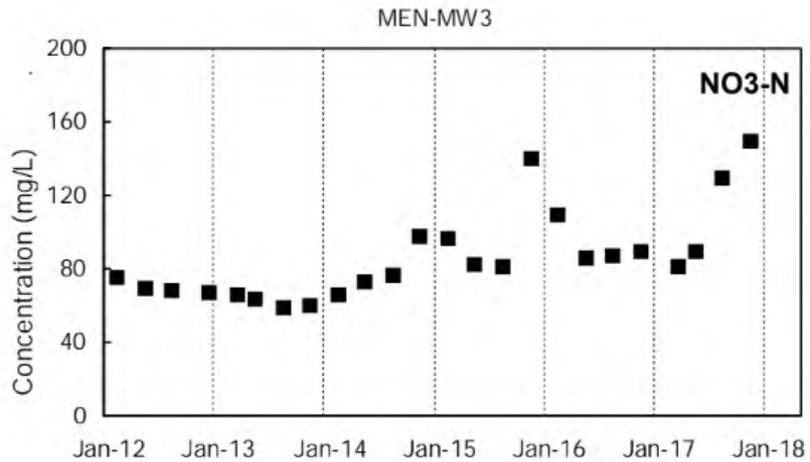
Rodriguez Labor Camp (CA Camp), CA



Tonyville, Ca

- Given well water with nitrates above legal level about 3 months out of every year.
- Other 9 months receives treated canal water

What is the trend for nitrate leaching from dairies?





THANK YOU!

For more information, contact:

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